

ABSTRACT

A mobile communication system capable of improving the system throughput. A base station (1) divides one cell into three sectors. A common pilot channel is transmitted to a plurality of mobile stations in the sectors by beams (101-103) whose directivity is controlled by an adaptive antenna for each of the sectors. On the other hand, when a mobile station (2) communicates data with the base station (1), the base station transmits a data channel and an individual control channel to the mobile station (2) by using a beam (201) whose directivity is controlled individually. The mobile station (2) switches between the common pilot channel and the individual control channel from the base station (1) for estimating the communication path quality.